

# Mathcamp 2007 -- Week 3 Academic Schedule

Name: \_\_\_\_\_

	Tuesday	Wednesday	Thursday	Friday	Saturday	
9 – 10 am	D341	<b>Mandatory Assembly (Arey 5)</b>	Matrix game theory * (Ari)	Matrix game theory * (Ari)	Matrix game theory * (Ari)	
	K103		Intro Problem Solving ** (Bogdan)	Intro Problem Solving ** (Bogdan)	Intro Problem Solving ** (Bogdan)	
	L212		Non-standard analysis ** (Dave)	Non-standard analysis ** (Dave)	Non-standard analysis ** (Dave)	
	L213		Zero-knowledge proofs *** (Marisa)	Zero-knowledge proofs *** (Marisa)	Zero-knowledge proofs *** (Marisa)	<i>Visualizing complex maps</i> ** (Moon Duchin)
	K102		From Greece to Galois **** (Alfonso) <b>[Moore method]</b>	From Greece to Galois **** (Alfonso) <b>[Moore method]</b>	From Greece to Galois **** (Alfonso) <b>[Moore method]</b>	From Greece to Galois **** (Alfonso) <b>[Moore method]</b>
10:10 – 11 am	K103	Enumeration celebration ** (M@)	Enumeration celebration ** (M@)	Enumeration celebration ** (M@)	Enumeration celebration ** (M@)	
	A5	Group actions ** (Leigh)	Group actions ** (Leigh)	Group actions ** (Leigh)	Group actions ** (Leigh)	
	L213	<i>The hairy ball theorem</i> ** - *** (Emily Landes)	<i>The hairy ball theorem</i> ** - *** (Emily Landes)	<i>The hairy ball theorem</i> ** - *** (Emily Landes)	<i>The hairy ball theorem</i> ** - *** (Emily Landes)	
	D343	Real analysis *** (Ari) <b>[HW]</b>	Real analysis *** (Ari) <b>[HW]</b>	Real analysis *** (Ari) <b>[HW]</b>	Real analysis *** (Ari) <b>[HW]</b>	
	K102	Representation theory **** (Mark)	Representation theory **** (Mark)	Representation theory **** (Mark)	Representation theory **** (Mark)	
11:10 – 12 am	K103	Math of elections * (Dave)	Math of elections * (Dave)	Math of elections * (Dave)	Math of juggling * (Dave)	
	D341	Unique factorization ** (Noah, David) <b>[By discovery]</b>	Unique factorization ** (Noah, David) <b>[By discovery]</b>	Unique factorization ** (Noah, David) <b>[By discovery]</b>	Unique factorization ** (Noah, David) <b>[By discovery]</b>	
	A5	<i>p-adic numbers</i> *** (Fernando Gouvea)	<i>p-adic numbers</i> *** (Fernando Gouvea)	<i>p-adic numbers</i> *** (Fernando Gouvea)	<i>p-adic numbers</i> *** (Fernando Gouvea)	
	K102	Complex analysis *** (Mark)	Complex analysis *** (Mark)	Complex analysis *** (Mark)	Complex analysis *** (Mark)	
	L213	Computable functions **** (Anti)	Computable functions **** (Anti)	Computable functions **** (Anti)	Computable functions **** (Anti)	
12 – 1 pm	Dana	<b>LUNCH</b>			12 – 2	<b>LUNCH &amp; ADVISOR MEETINGS</b>
					2:10 – 2:40	Which numbers mod $p$ are the sum of 2 cubes? (Noah, A5)
1:10 – 2 pm	L212	The stable marriage algorithm * (Alfonso)	<i>The life and legend of Galois</i> * (Moon Duchin)	<i>Probability and hailstone numbers</i> ** - *** (Moon Duchin)	<i>The shape of groups</i> ** - *** (Moon Duchin, Yvonne)	
	K102	Summing divergent series ** - *** (Ryan)	Summing divergent series ** - *** (Ryan)	Rational trigonometry ** (Julian)	Rational trigonometry ** (Julian)	
	L213	Cryptography *** (Marisa)	Cryptography *** (Marisa)	Cryptography *** (Marisa)	Cryptography *** (Marisa)	
	D341	Hyperplane arrangements **** (David, M@)	Hyperplane arrangements **** (David, M@)	Hyperplane arrangements **** (David, M@)	Hyperplane arrangements **** (David, M@)	
	K103	Olympiad problem solving with calculus **** (Bogdan)	Olympiad problem solving with calculus **** (Bogdan)	Olympiad problem solving with calculus **** (Bogdan)	Olympiad problem solving with calculus **** (Bogdan)	
2 – 3:50 pm TAU	D	<b>CHECK THE TAU BOARD (in Diamond)</b>			3:40 – 5:00	<b>RELAYS!</b> (Flagpole quad in good weather, otherwise in Diamond)
4 - 5 pm Colloquia	A5	The Mathematics of Lights-Out (Leigh)	Qualifying Quiz Presentations! (Students)	<i>The geometry of infinity</i> (Moon Duchin)	Qualifying Quiz Presentations! (Students)	

D = Diamond, L = Lovejoy, K = Keyes, A = Arey

[HW] = Homework required